

FIG. 1A

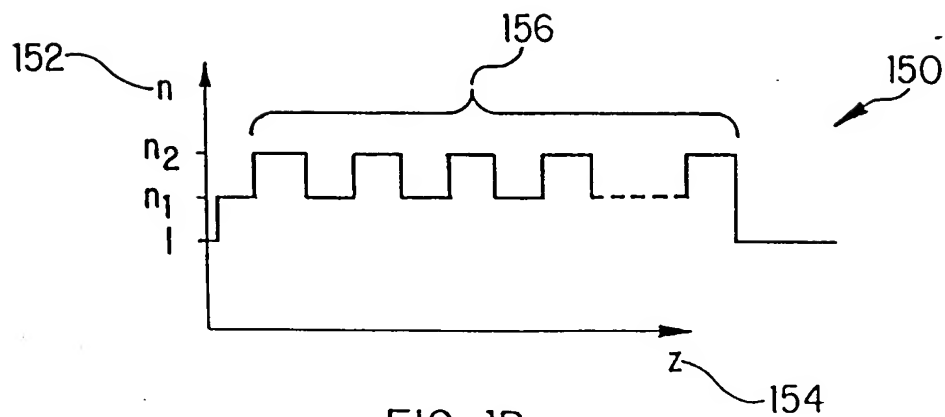


FIG. 1B

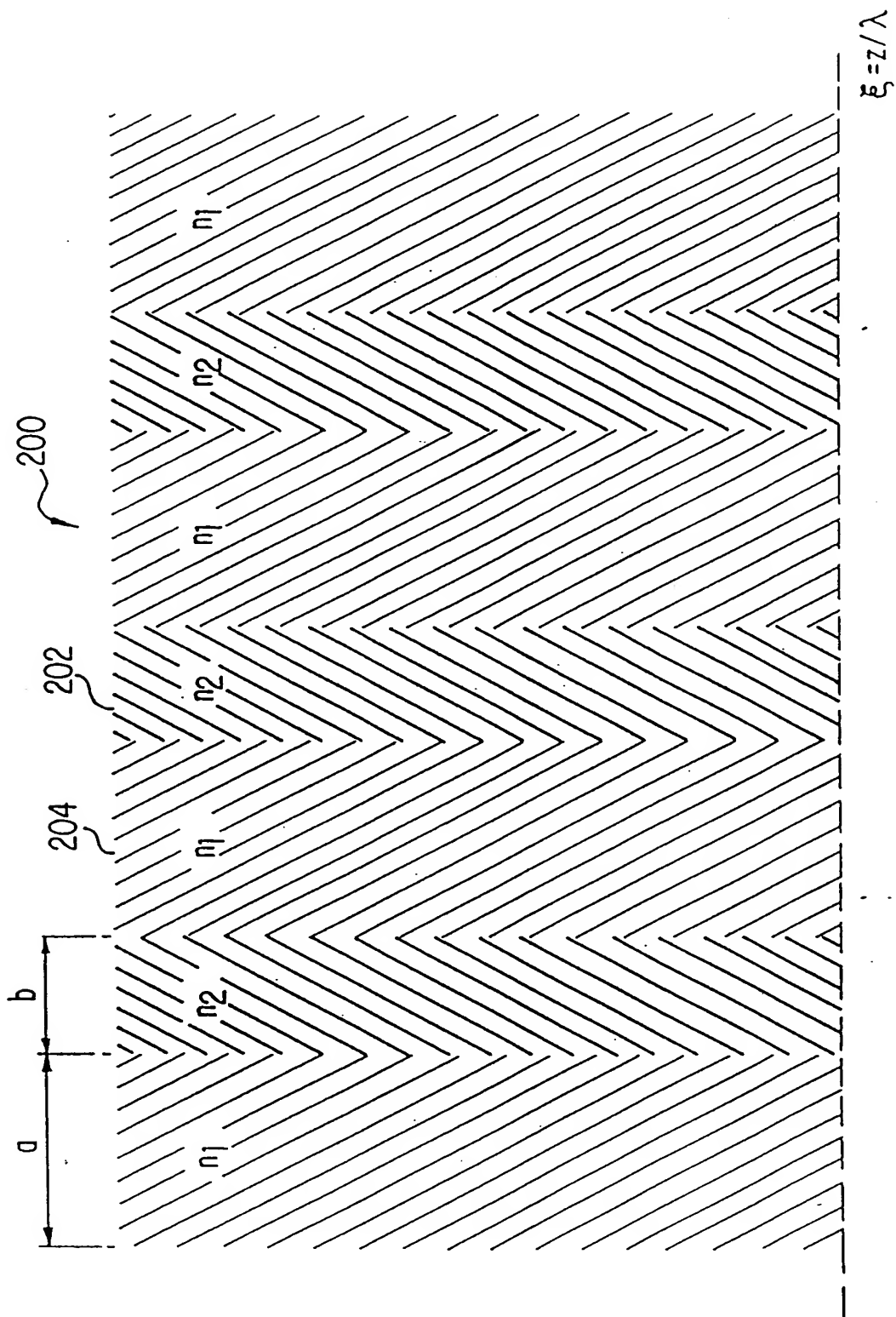


FIG. 2

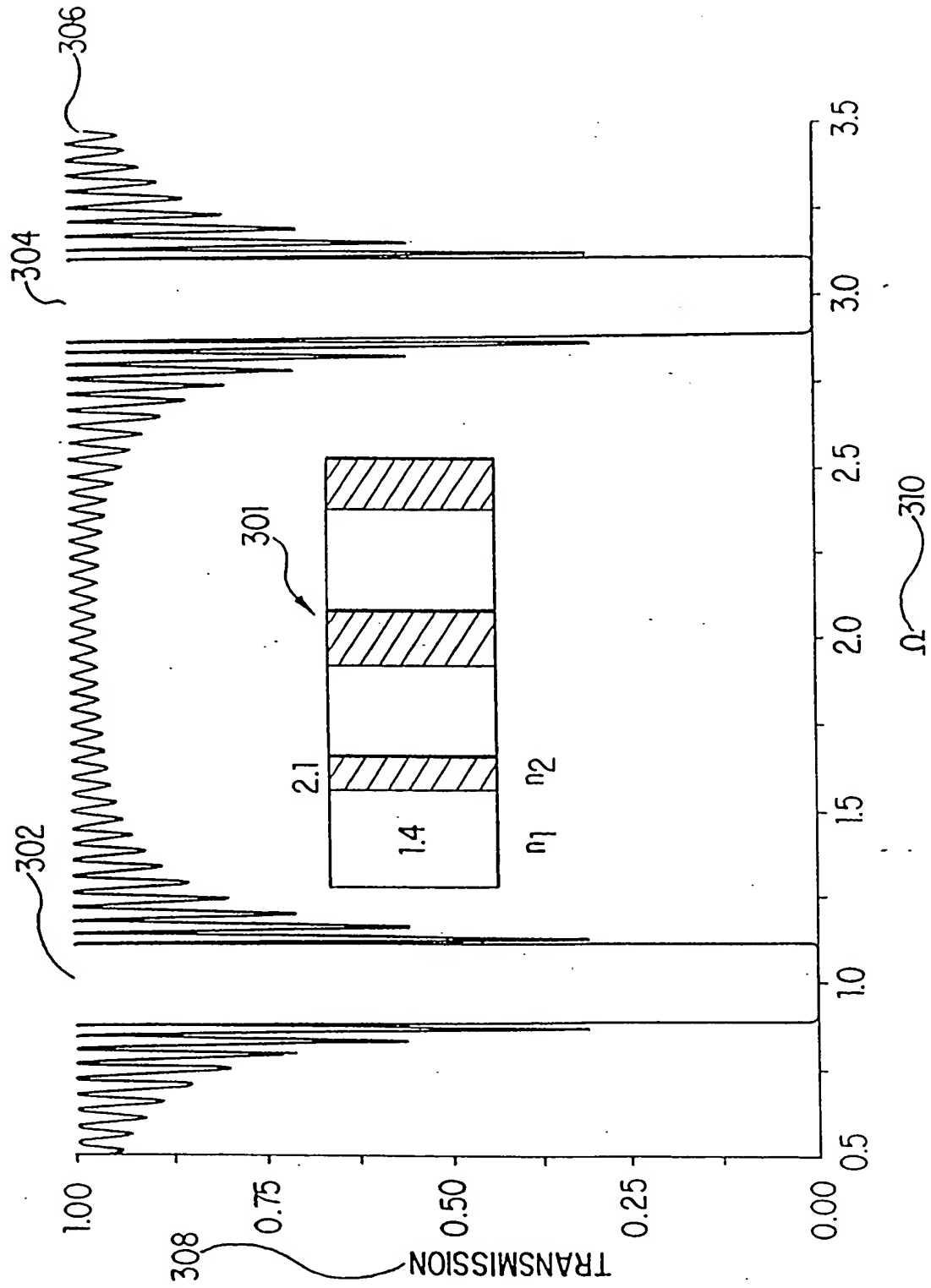


FIG. 3

Title: Photonic Signal Frequency Up and Down-
Conversion Using a Photonic Ban Gap
Structure

Inventor: Michael Scalora et al.
Att. Docket No. 99999-999999

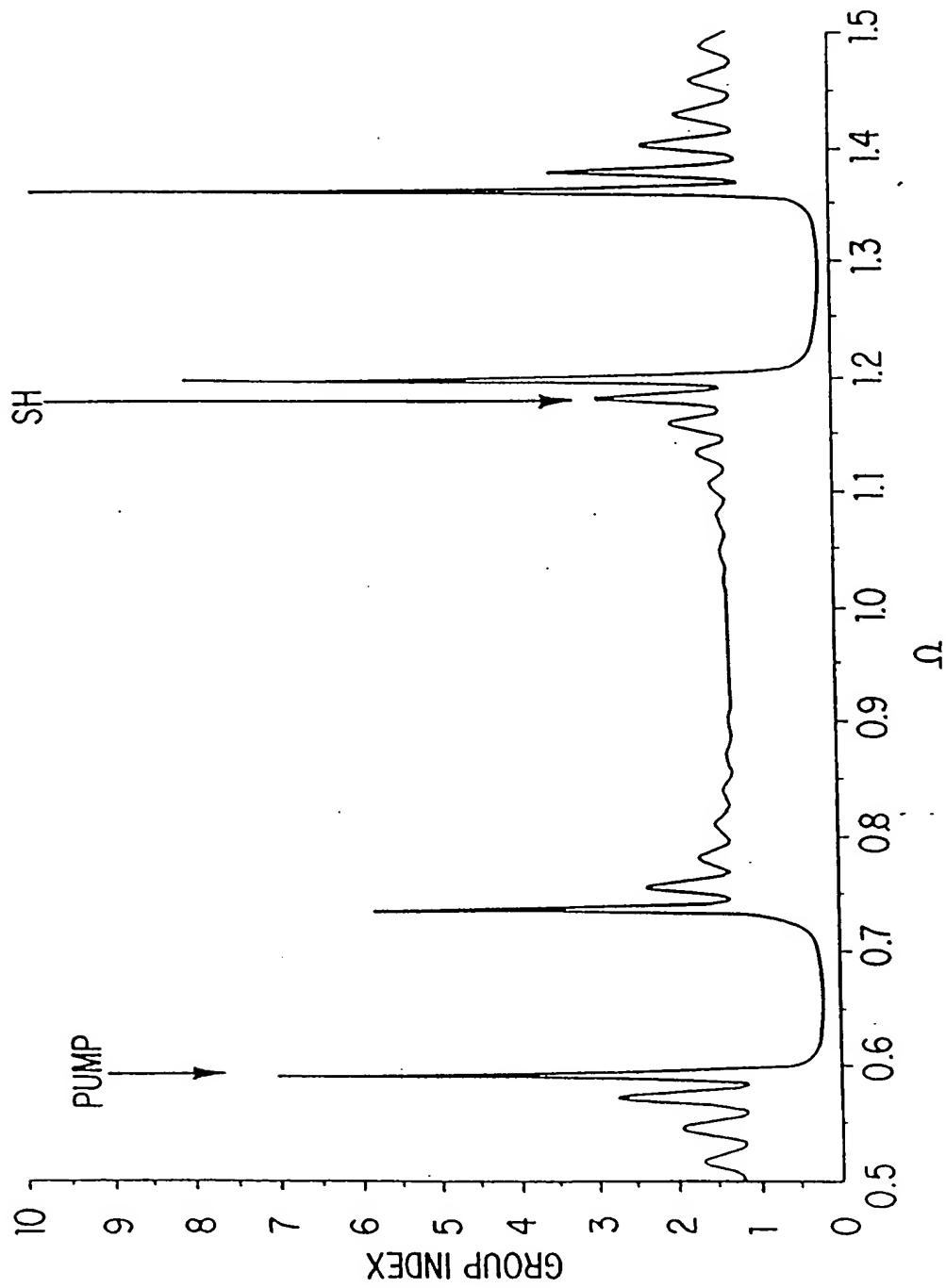


FIG. 4

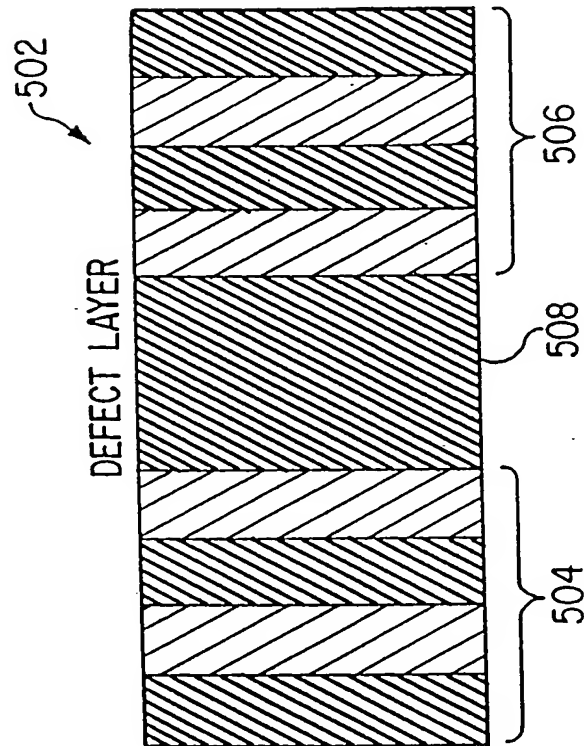


FIG. 5

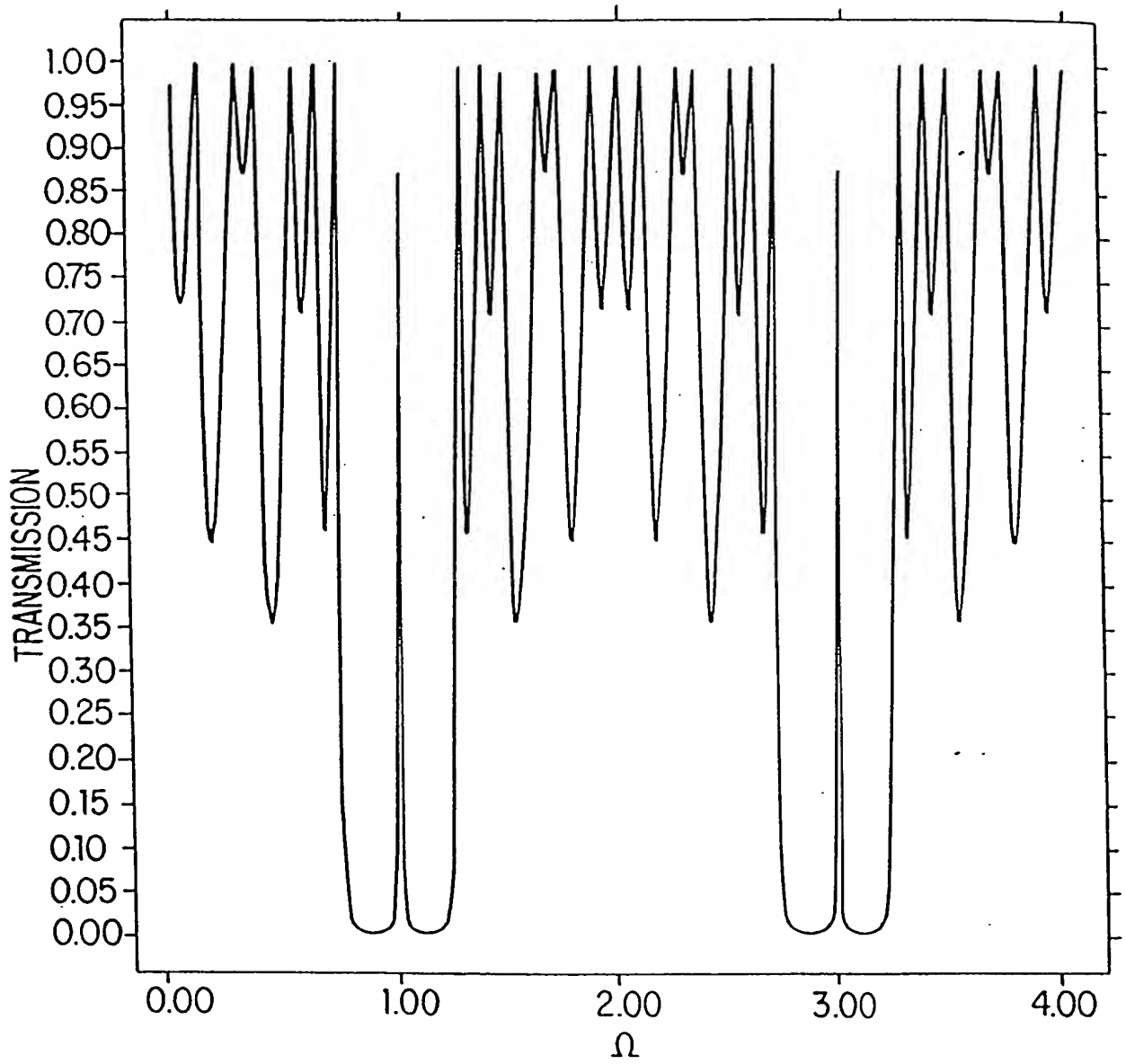


FIG. 6

Title: Photonic Signal Frequency Up and Down-
Conversion Using a Photonic Ban Gap
Structure

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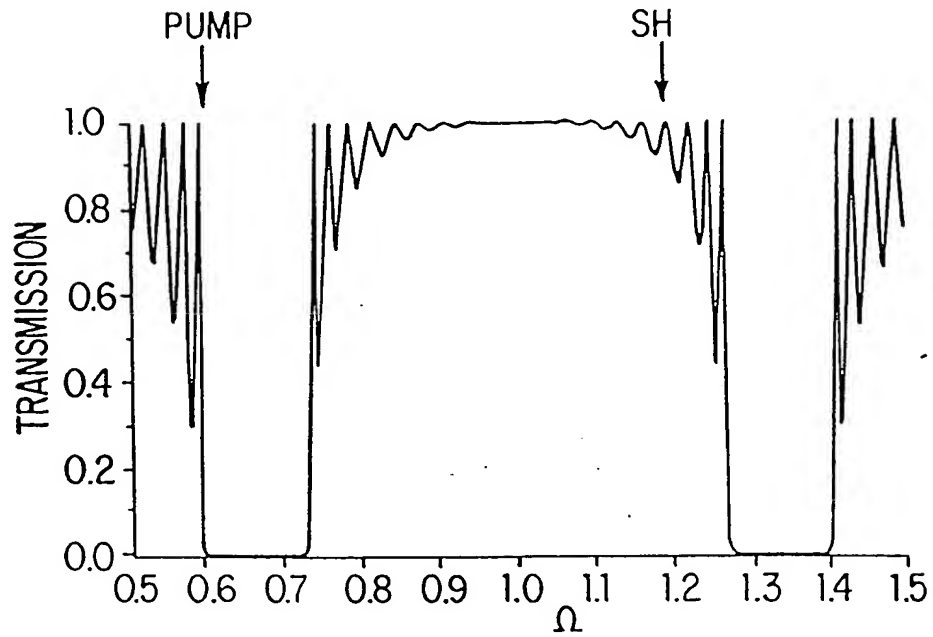


FIG. 7

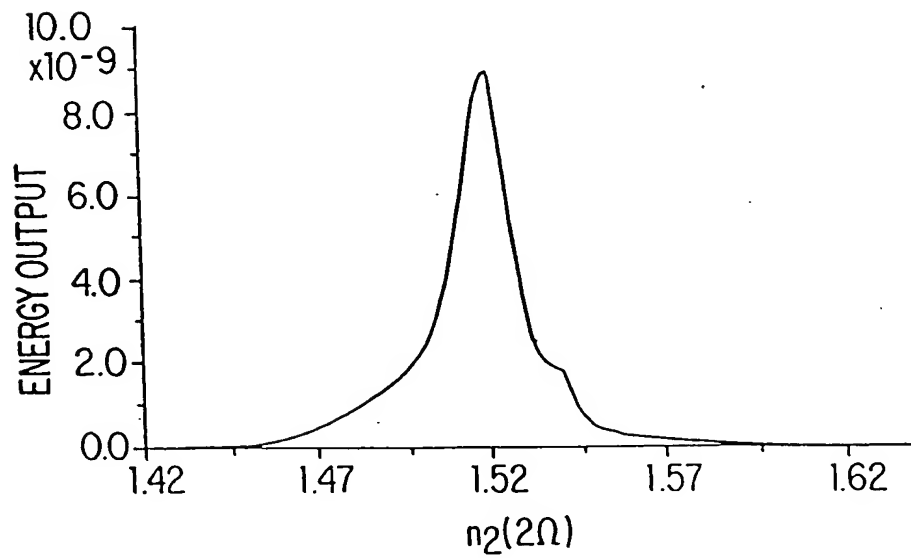


FIG. 8

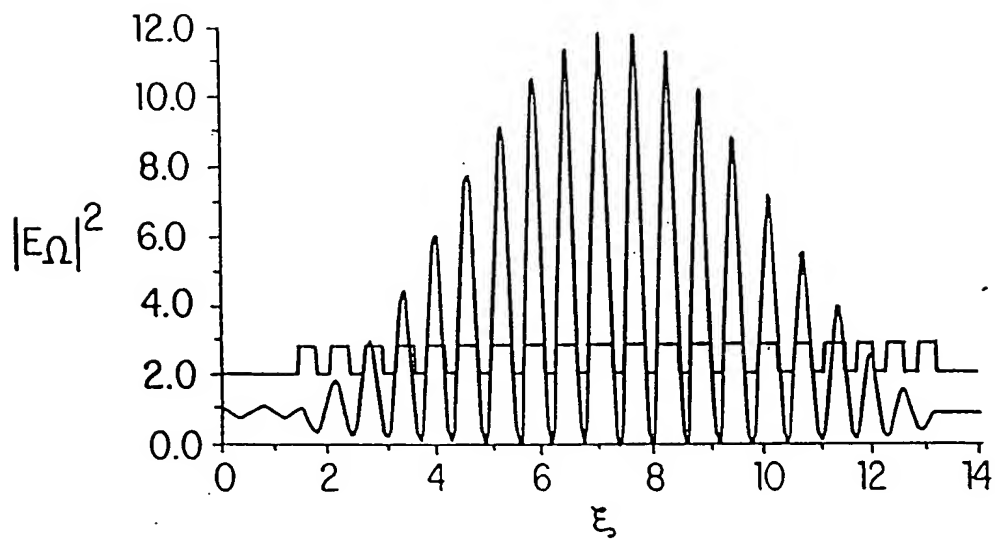


FIG. 9

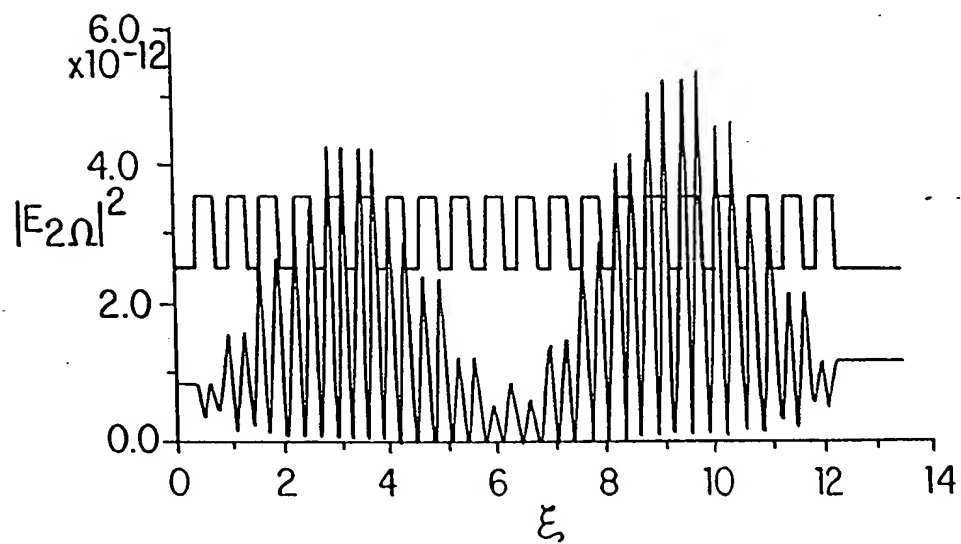


FIG. 10

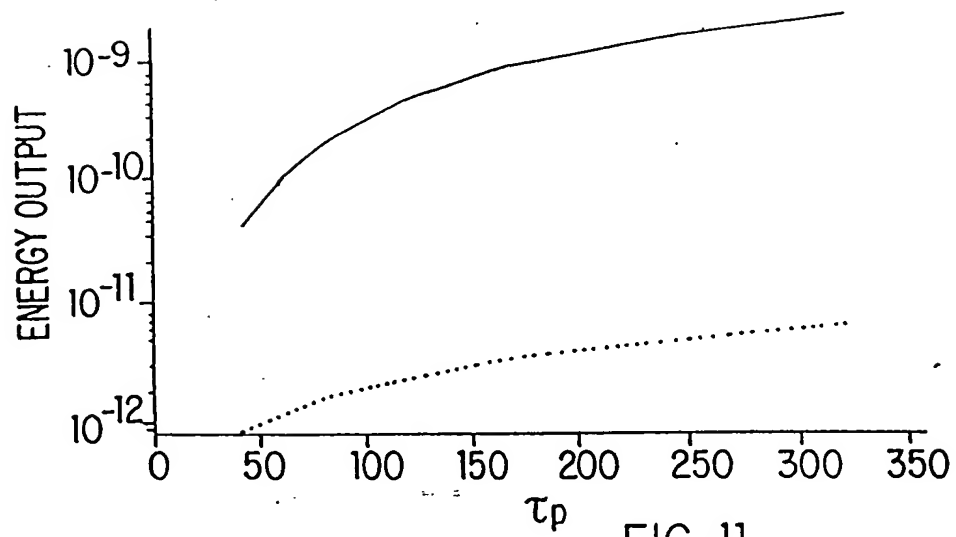


FIG. 11

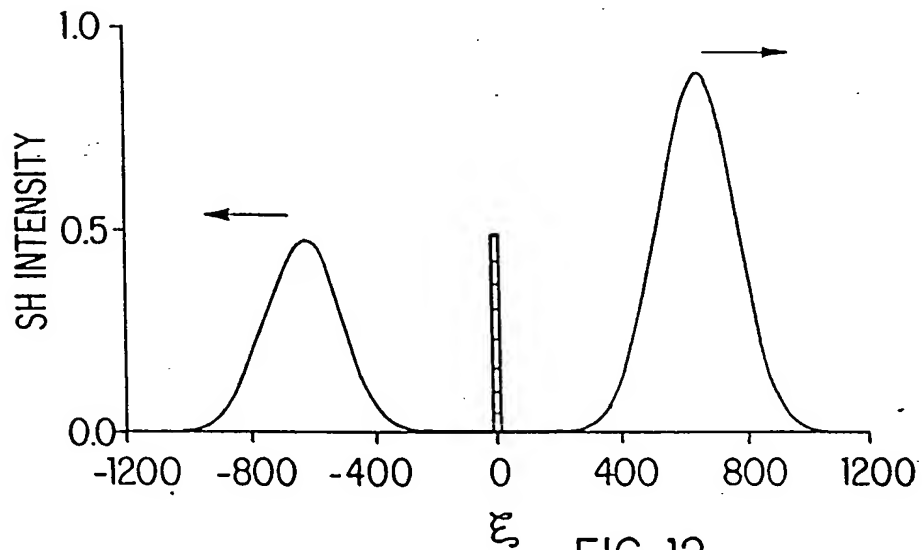


FIG. 12

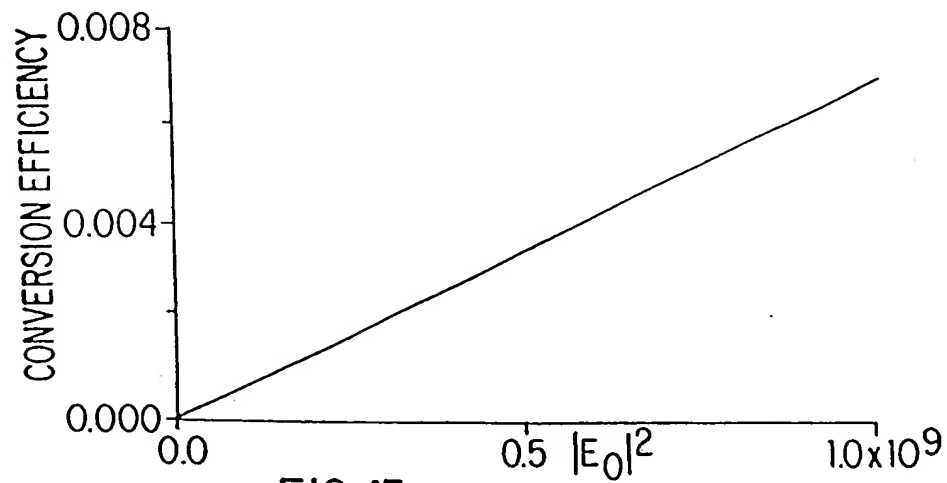


FIG. 13

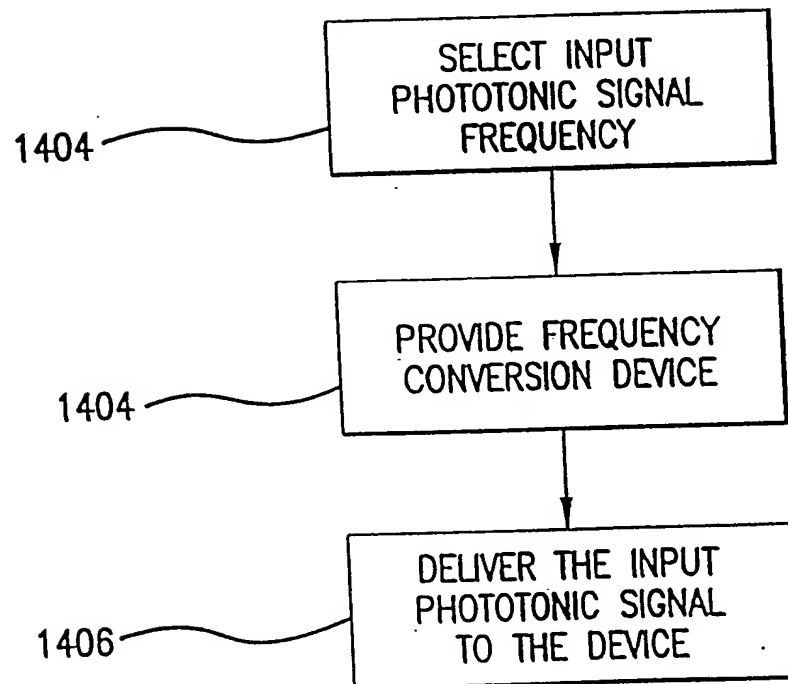
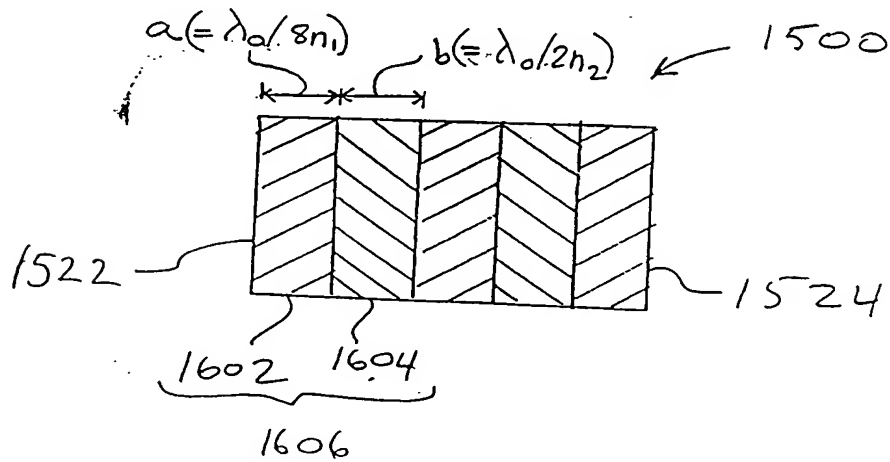
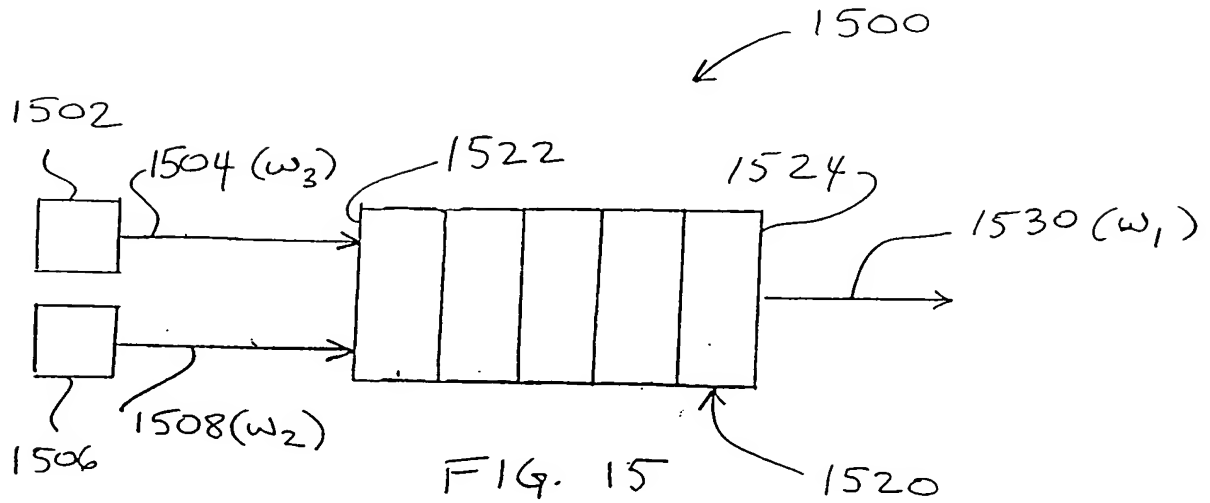


FIG.14



Title: Photonic Signal Frequency Up and Down-
Conversion Using a Photonic Ban Gap
Structure

Inventor: Michael Scalora et al.
Att. Docket No. 99999-999999

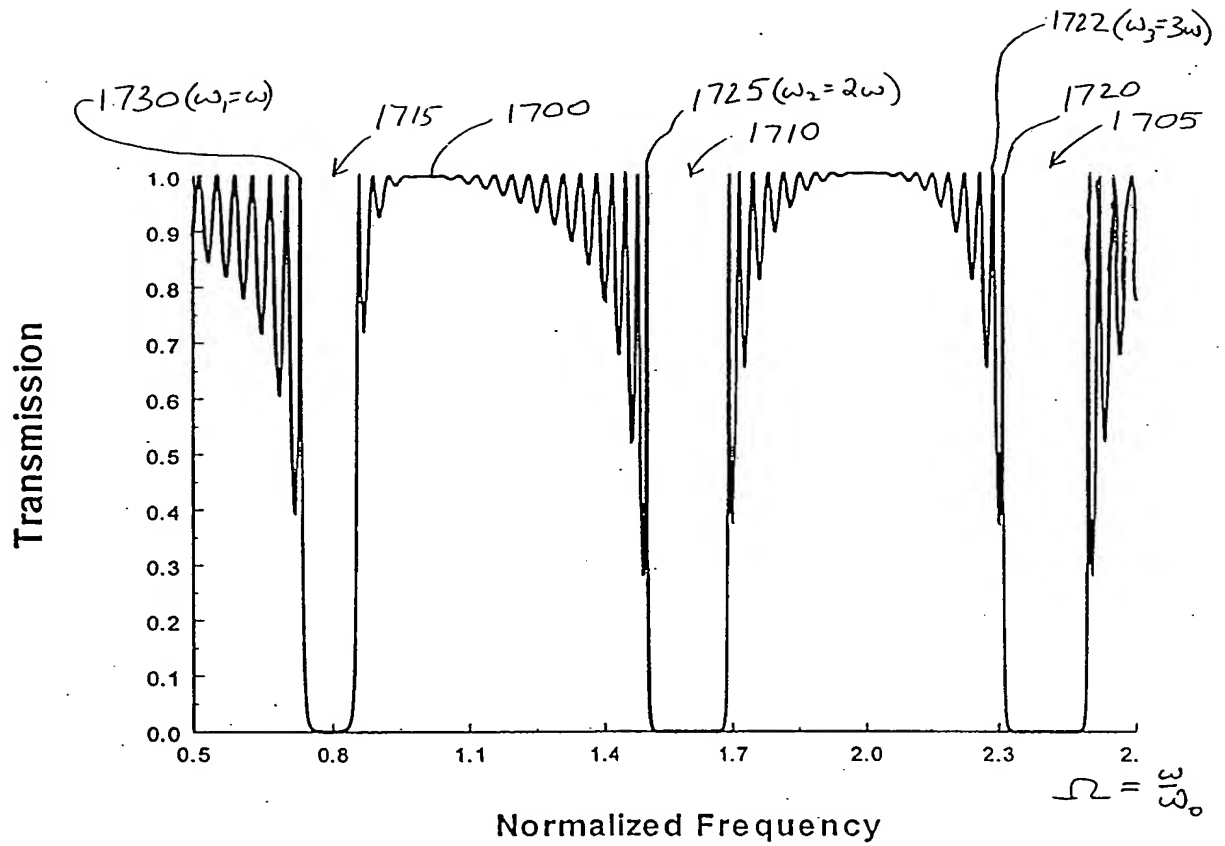


FIG. 17A

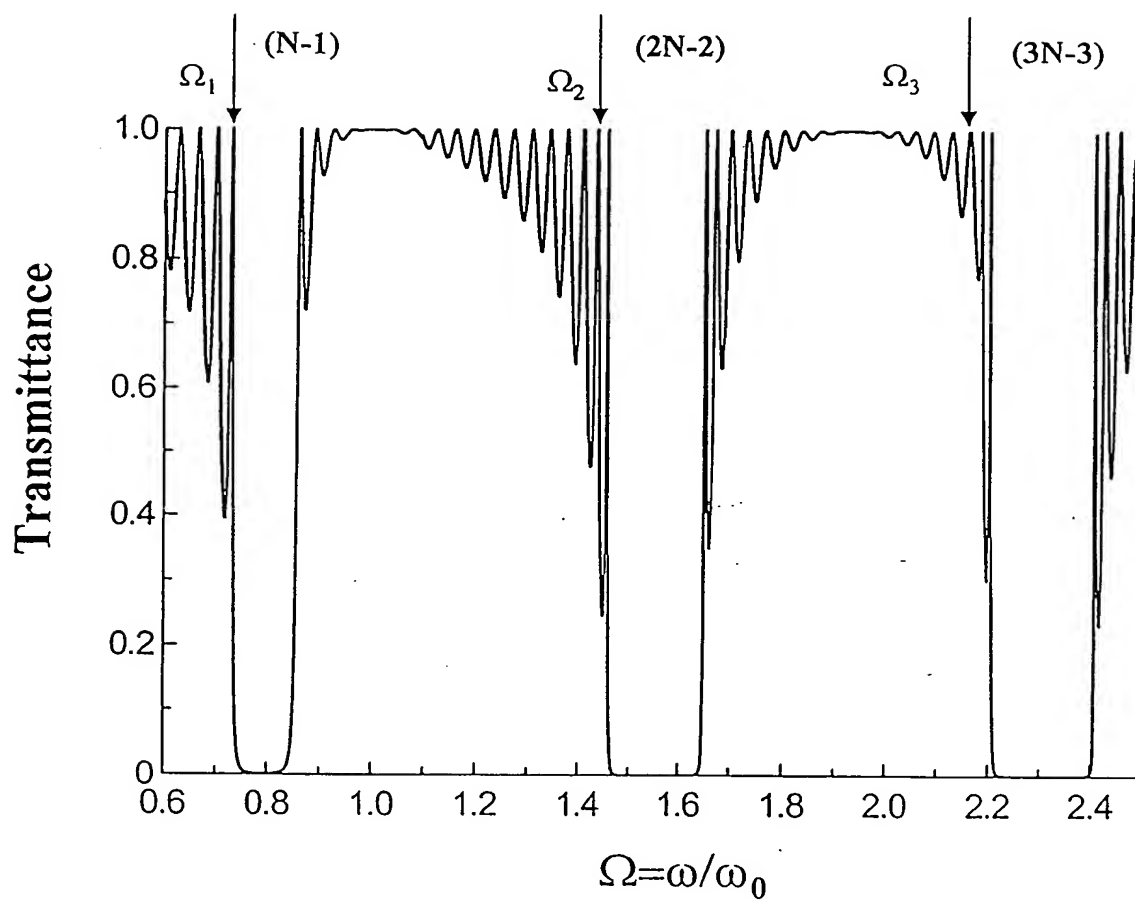


FIG. 17B

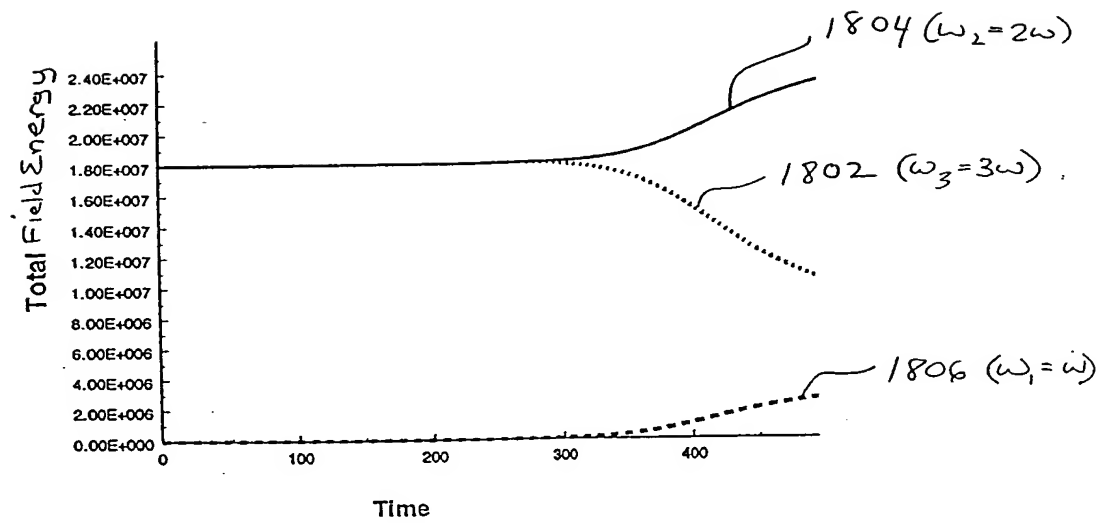


FIG. 18